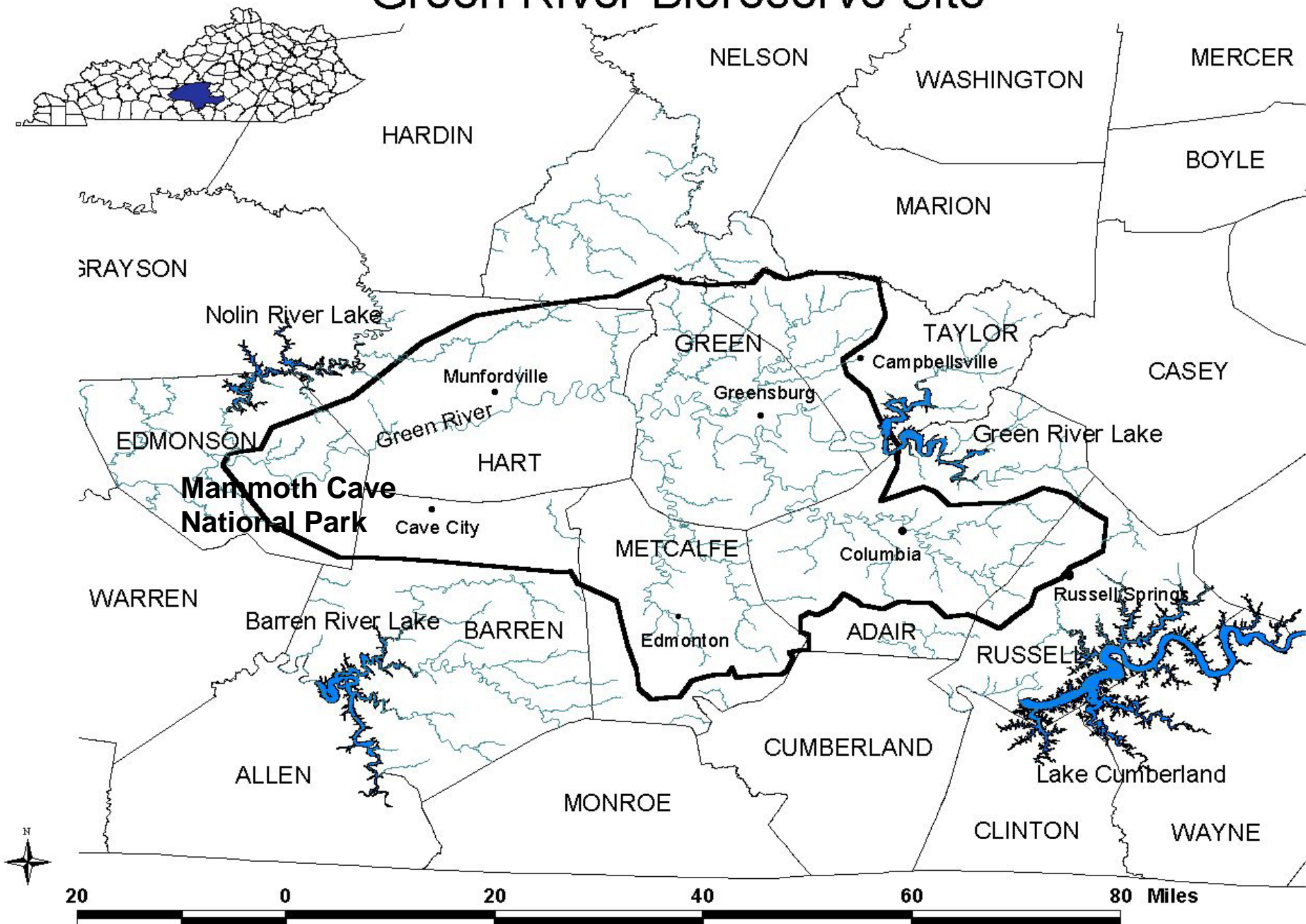




Green River Bioreserve Site



Green River KY

- 60 species of freshwater mussels
 - 21 imperiled
 - 7 endangered (federal)
- 151 fish species
 - 6 endemic
 - 12 globally rare
- Mammoth Cave Complex







Effort-To-Date

- Green River Reoperation
- 1135 Project Downstream (Handy Project)
- Collecting Water-Temp Within Basin (TNC, USGS, USACE)
- CREP Program (USDA, KDFWR, TNC, KDOC)
- Mathematical Model Simulation (USACE, TNC)
- Fish and Mussel Monitoring (TNC)
- Removal L/D 6

Operational Modifications

- Delayed Filling
- Delayed Drawdown
- Increase Winter Pool
- Increase Max Q During Non-Crop Season- 6200 cfs to 8,000 cfs
- Increase Max Q During Crop Season- 4400 cfs to 5300 cfs
- Increase Flood Releases During Non-Crop Season- 300 cfs to 1000 cfs After Flood Peak

Environmental Impacts

- Decrease Cold-Water Discharges in Spring
 - Improve Indicator of Hydrologic Alteration
- Improve WQ In Lake
 - Lowers Spring Chlorophyll Concentrations
 - KDFWR concerned re:black crappie spring spawn
- Improves Early Fall Flow and Temp Pattern
- Improved reproduction of fall breeding aquatic species
- Recreation season lengthened in Fall
- Some improvement in downstream water temperatures in spring

Handy August 2002

